

Abstract of the Disclosure

A special purpose decoder and display unit is designed to present special format radar signals for training. Several display formats ease operator workload while acquiring desired radar formats. A reference tone is recorded along with radar signals on a tape and a phase locked oscillator receives the reference tone which has the same fluctuations that the recorded radar signals have. A controlled computer and the phase locked oscillator feed their signals to a frequency synthesizer that creates a fine tuned signal based on the output signals of the phase locked oscillator and the computer. A timing generator is coupled to receive the output of the frequency synthesizer and it generates special purpose timing signals which are fed to a display. A video input receives radar signals coming from the tape, for example, to generate a sense directed, gain controlled video signal. A planned position indicator converter receives the gain controlled video signal and processes the signal from polar to rectangular coordinates in accordance with directions from the control computer so that a display unit can appropriately show the information contents of the video input signal without the wow and flutter that might otherwise be attributable to speed inconsistencies of the tape.

17

18

19

20

21

22

23

24

25

26

27

28